First/Part/Final

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For other words)

Date: ……..

Division :DASARAHALLI DIVISION

bill received no ……dated… … Sub division……

Book voucher No……..…..

Dated……..Scheduled Docket No……..

Head of Account……..

Name of work (as per Sanctioned Estimate.) **Providing drinking water works in ward no.13 in Dasarahalli division.**

Name of contractor and full address: **M/S KRIDL**

Reference to Agreement No. EE/DD/WO/ 93 /17-18, Dated: 24/ 10 /2017

Certified that the measurements were taken by me on…11/01/2018……and recorded in pages 61301 to 61320

Measurements Book No 614/ 2017-18 And that the work is satisfaction executed.

Contractor.

Officer-in-charge of work.

Certified that the measurements were taken by me on.11/01/2018……and found correct. The work is satisfactorily executed Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

If Memorandum of payment

Work Code No. 013-17-000052

Sub-Division Officer

		AMOUNT	
1.	Total value of work done or Supplies made as per account.		
2.	Deduct amount to be held in reserve being ……..percent Rs…….		
3.	Deduct amount to be held in reserve being balance		
4.	Deduct payments: a) Amount of previous payment as in the office cash book voucher No…….....Dated……..……S.D.No……..…… Amount adjusted towards cash advance recovery of b) Payment cost store or other materials supplied.		
5.	Balance being unpaid value of work done held in reserve Total…..……		
6.	Deduct cash advance made on the office cash book vehicle No…….. Dated…….less adjustments.		
7.	Net amount due to or from contractor unadjusted items		
8.	Advance to contractor for materials brought to site (as detailed) Within value of Government materials supplied.		
	Total amount adjusted:		

---------- Contractor signature.

Received Rs…… (In words)

……

……by cash and by adjustment of

Payment as per memorandum.

(In final settlement of all demand)

(for use in the office)

Witness:

1.

2.

Date:

Paid by me by cheque No……Dated……

Cash Rs……dated……

Initials of officer making payment dated……

Contractor Signature.

Executive Engineer.

Sl. No	Description	Unit
1	2	3
1	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water cum supply, sanitary lines and electrical conduits either in pits or in trenches1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m.after breaking of clods complete as per specifications,specification. No. KBS 2.1(b)/2:3.5	Cum
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum
3	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum
4	KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masoniy in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13)	Cum
5	KSRB 4.2.2 : Providing and laying in position reinforced cement cum concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6	Cum
6	KSRB 2.3: Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9	Cum
7	KSRB 2.5 : Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications, specification. No. KBS 2.9.9/2.9.10.1/2.1.1	Cum
8	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3its confirming to 1S9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for ail works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	Cum
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded cum granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, nciuding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum
10	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2	SQM
11	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	SQM

Previous Measurement		Present Measurement			Total Up-to-date		Remarks
Qty	Cost	Qty	Rate	Cost	Qty	Cost	
4	5	6	7	8	9	10	11
_	_	40.11	305.64	12259.22	305.64	12259.22	
_	_	5.94	5449.68	32371.10	5449.68	32371.10	
_	_	7.37	4521.96	33326.85	4521.96	33326.85	
_	_	2.33	5405.40	12594.58	5405.40	12594.58	
_	_	5.49	6491.88	35640.42	6491.88	35640.42	
_	_	20.06	137.16	2751.43	137.16	2751.43	
_	_	30.96	274.32	8492.95	274.32	8492.95	
_	_	4.98	6650.64	33120.19	6650.64	33120.19	
_	_	2.30	5876.28	13515.44	5876.28	13515.44	
_	_	11.70	249.48	2918.92	249.48	2918.92	
_	_	19.80	395.28	7826.54	395.28	7826.54	

12	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level. Specification No. KBS 4.6.2	SQM
13	KSRB 4-6.9 Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	SQM
14	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, Sqm propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	SQM
15	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500	Tonnes
16	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200mm having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.54.(Page No. 25, It No. 5.26.1 of KPWD S.R 2016-17)	SQM
17	KSRB 5-15: Providing and constructing non load bearing wall with solid Sqm concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4.(Page No. 25, It No. 5.28 of KPWD S.R 2016-17)	SQM
18	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips; suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m Specification No. KBS 7:107 7.12	SQM
19	KSRB 7.6 : Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting , materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 7.10.6/7.12	Mtrs
20	KSRB 7.15 : Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1 mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m» double grove thickness 1 9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36. 5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto G.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, raw! plugs and teak wood gutties to R.C.C.columns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement mortar to match the surface; providing and fixing 5.5mm. thick plain glass for middle portion viz., fr.9m. to 2.13 m. and top panel with	SQM

–	–	16.40	338.04	5543.86	338.04	5543.86	
–	–	2.56	732.24	1874.53	732.24	1874.53	
–	–	27.76	276.48	7675.08	276.48	7675.08	
–	–	1.05	65455.00	68727.75	65455.00	68727.75	
–	–	32.83	1011.96	33222.65	1011.96	33222.65	
–	–	6.80	773.28	5258.30	773.28	5258.30	
–	–	5.25	3090.96	16227.54	3090.96	16227.54	
–	–	2.10	510.84	1072.76	510.84	1072.76	
–	–	4.15	3566.16	14799.56	3566.16	14799.56	

21	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following, aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness . 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top . section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91 x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11	SQM
22	Providing and fixing Special make glazed Vitrified tiles (Granomite Sqm finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., cost of materials, mortar, labour etc., completeas per specification.	SQM
23	KSRB 14-17.2 : Providing skirting, dadoing, rises of steps with colour glazed tiles 15x15cmc 6mm on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16,14.17	SQM
24	KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.	SQM
25	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specification	SQM
26	KSRB 15-3-13 : Providing 12mm thick cement piaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.	SQM
27	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.	SQM
28	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered - (a) 100% for fresh surface (b) Upto 10 % for repainting	SQM
29	KSRB 15-15.1 : Providing and applying painting with primer in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	SQM
30	KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications.	SQM

–	–	2.10	6814.80	14311.08	6814.80	14311.08	
–	–	12.00	1285.20	15422.40	1285.20	15422.40	
–	–	2.04	1157.76	2361.83	1157.76	2361.83	
–	–	53.81	252.72	13598.86	252.72	13598.86	
–	–	34.95	263.52	9210.02	263.52	9210.02	
–	–	16.00	208.44	3335.04	208.44	3335.04	
–	–	50.95	27.00	1375.65	27.00	1375.65	
–	–	50.95	60.48	3081.46	60.48	3081.46	
–	–	50.95	97.20	4952.34	97.20	4952.34	
–	–	50.95	4.32	220.10	4.32	220.10	

31	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges (Item No.15.105, Page No.125, SR: 2016-17)	SQM
32	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.(P.No- 121,It. No-15.73 of KPWD S.R 2016-17)	SQM
33	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.(P.No- 121,It. No-15.74 of KPWD S.R 2016-17)	SQM
34	KSRB 8.6-7: Providing and fixing on wail surface 4.0 kg I sq.cm H.D.P.E. rain down water pipes 110mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications.	Mtrs
35	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 :1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per spedfications.(For1000 litre capacity) Specification No.KBS 13.22	Nos
36	Supply of water purification unit , installation and commissioning 1000LPH with Chloride Plant with mild steel vessel without UV	Nos
37	Additional price for installation of Ultra Voilet System	Nos
38	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the wallsetc.)	Mtrs
39	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thick(P.No-2 ,I No-1.2.1 of PWD S.R 2014-15)	Rmtr
40	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of (,I No-2.5 of PWD S.R 2014-15)	Rmtr
41	Point wiring using Copper wire without switch.Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2x1.5 Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose lenght in a wood/PVC round block. complete for each outlet.(5/2.3)(,I No-2.3 Pg No. 5of PWD S.R 2014-15)	Each Point

_	_	53.81	375.84	20223.95	375.84	20223.95	
_	_	12.18	31.32	381.48	31.32	381.48	
_	_	12.18	88.56	1078.66	88.56	1078.66	
_	_	25.00	613.44	15336.00	613.44	15336.00	
_	_	1.00	9144.36	9144.36	9144.36	9144.36	
_	_	1.00	615000.00	615000.00	615000.00	615000.00	
_	_	1.00	10000.00	10000.00	10000.00	10000.00	
_	_	40.00	226.80	9072.00	226.80	9072.00	
_	_	40.00	270.00	10800.00	270.00	10800.00	
_	_	40.00	334.80	13392.00	334.80	13392.00	
_	_	20.00	43.00	860.00	43.00	860.00	
_	_	40.00	13.00	520.00	13.00	520.00	
_	_	40.00	29.20	1168.00	29.20	1168.00	
_	_	70.00	42.10	2947.00	42.10	2947.00	
_	_	2.00	144.00	288.00	144.00	288.00	
_	_	2.00	215.00	430.00	215.00	430.00	
_	_	2.00	334.00	668.00	334.00	668.00	

42	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.. Is 3854 and IS 1293. (16/3.7) (Page No - 16, I No-3.7of PWD S.R 2014-15)	Nos
43	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 3.7.18) 1000-1200Watts Dimmer(I No-3.7, Page no. 16 of PWD S.R 2014-15)	Each
44	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16.1) 5-32Amps SP(I No-6.2, Page no. 54 of PWD S.R 2014-15)	Each
45	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (I No-7.1, Page no. 55 of PWD S.R 2014-15)	Nos
46	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.1) 16Amps(I No-6.7, Page no. 44 of PWD S.R 2014-15)	Each
47	Supply patty type fluorescent tube light fitting of 4'-36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on230 Volts A C Supply including 1No 4'-36/40 Watts fluorescent tube. c) Group 'C' KPWD SR (Ele) 2010-11	Each
48	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. 17.7.1) On wall / ceiling / Rafter / Girders (I No-17.7, Page no. 114 of PWD S.R 2014-15)	Each
49	SHORT POLES: (whereas clearance between Messenger wire and ground is inadequate) a) Supplying and fixing 40mm diat 2.90 thick GI pipe 1.8m long complete with atleast 2 GI pipe 1.8m, long complete with atleast 2 Nos of through bolts 12 mm dia with MS back plate 100x100x6mm dia with eye bolt fixed at top deadeninding messenger wire with masonary patch work etc., complete as per approved drawing (for single phase installations)	Each
50	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phase and 4 single core wires for 3 phase. Supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two break insulators one at each end of the span with suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes(single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No.14SWG) GI wire suitably bent and twisted. Separate reely insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole wide item No.4 above.(Page No.56 item No.5 a)Single Phase using 2 Wire e) 16 Sqmm	Rmtrs
	Grand Tot	

CERTIFICATE :

It is Certified that the Contractor has completed the work satisfactorly

He has removed the debries from work spot

Quality Control Test Report and Photo graphs are enclosed along with bills

	_	1.00	63.00	63.00	63.00	63.00	
_	_	1.00	95.00	95.00	95.00	95.00	
_	_	3.00	114.00	342.00	114.00	342.00	
_	_	3.00	147.00	441.00	147.00	441.00	
_	_	1.00	447.00	447.00	447.00	447.00	
_	_	2.00	418.00	836.00	418.00	836.00	
_	_	2.00	2727.00	5454.00	2727.00	5454.00	
_	_	1.00	120.00	120.00	120.00	120.00	
_	_	5.00	340.00	1700.00	340.00	1700.00	
_	_	5.00	98.00	490.00	98.00	490.00	
_	_	1.00	525.00	525.00	525.00	525.00	
_	_	30.00	85.00	2550.00	85.00	2550.00	
Sub Total				1141055.00		1141055.00	
KRIDL Charges 10+1%				125516.00		125516.05	
al				1266571.00		1266571.00	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು